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Application/Control Number: 09/816,810 Page 2

Art Unit: 2611

## **EXAMINER'S AMENDMENT**

1. This Office Action is responsive to the Amendment filed on 10/4/06.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Jeanette Harms on 10/12/06.

The application has been amended as follows:

IN THE CLAIMS:

-In claim 12, line 9, a phrase --hopping according to a determined hopping sequence-- is inserted after the limitation "frequency hopping interferer".

## REASONS FOR ALLOWANCE

- 3. Claims 6, 7, 10, 12 and 13 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

-Regarding to independent claim 6, none of prior art of record teaches or suggests a method comprising procedure of decoding a plurality of encoded data bits in a manner deemphasizing a subset of the plurality of encoded data bits, the de-emphasizing being based on an estimate of the likelihood of the subset having been received correctly wherein the estimate is determined based upon know training patterns to determine which bits will be undesirable, wherein the training patterns are received and examined to find a statistics of errors.

Application/Control Number: 09/816,810

Art Unit: 2611

-Regarding to independent claim 7, none of prior art of record teaches or suggests a method comprising procedure of decoding a plurality of encoded data bits in a manner deemphasizing a subset of the plurality of encoded data bits, the de-emphasizing being based on an estimate of the likelihood of the subset having been received correctly wherein the estimate is determined based upon an error rate among training patterns.

Page 3

-Regarding to independent claim 10, none of prior art of record teaches or suggests a method comprising procedure of decoding a plurality of encoded data bits in a manner deemphasizing a subset of the plurality of encoded data bits, the de-emphasizing being based on an estimate of the likelihood of the subset having been received correctly wherein the estimate is determined based upon checking a SNR of each of a plurality of bins and weighting accordingly using Maximum Likelihood criteria, derived from before and after decoding.

-Regarding to independent claim 12, none of prior art of record teaches or suggests a method comprising procedure of decoding a plurality of encoded data bits in a manner deemphasizing a subset of the plurality of encoded data bits, the de-emphasizing being based on an estimate of the likelihood of the subset having been received correctly wherein the estimate is determined based upon a change to a determined frequency hopping interferer hopping according to a determined hopping sequence.

-Regarding to independent claim 13, none of prior art of record teaches or suggests a method comprising procedure of decoding a plurality of encoded data bits in a manner deemphasizing a subset of the plurality of encoded data bits, the de-emphasizing being based on an estimate of the likelihood of the subset having been received correctly wherein the estimate is

Application/Control Number: 09/816,810

Art Unit: 2611

determined based upon interpolating frequency bins selected for puncturing based on frequency

offset estimation.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The

examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PHUONG PHU PRIMARY EXAMINER Phuong Phu Primary Examiner Art Unit 2611

Phuonsphu 10

10/13/06

Page 4

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